## Amendments to the Specification

Please replace the title with the following amended title:

METHOD AND APPARATUS FOR THE DETECTION OF MULTIPLE SMALL

DEFECTS IN A FLAW SCAN DETECTION SYSTEM IDENTIFYING DEFECTIVE

AREAS ON A DISK SURFACE OF A DISK DRIVE BASED ON DEFECT DENSITY

Please replace the paragraph that begins on page 2, line 12 with the following amended paragraph:

In order to help prevent delivery of computer disk drives having defects in storage media to end users, disk drives are typically tested for such defects. According to a typical testing procedure, data is written to the storage media in a test pattern. The test pattern is then read from the storage media and the results of the read operation are compared to the expected results. For example, a signal produced in the channel of a hard disk drive as a result of reading the test pattern may be periodically sampled, and the amplitudes of the samples may be compared to the expected amplitudes. A signal indicating the detection of a defect may be generated if a sampled value is less than the corresponding expected value. For further information regarding a method and apparatus used to detect flaws in storage media, see U.S. Patent Application No. 09/848,089 filed May 2, 2001 No. \_\_\_\_\_\_, entitled "METHOD AND APPARATUS FOR FLAW DETECTION IN SYNCHRONOUS SAMPLING (PRML) READ CHANNELS USING POST PROCESSED DIGITAL FILTERS" to Curtis Egan, and assigned to the assignee of the present invention, the entire disclosure of which is hereby incorporated by reference.

Please replace the paragraph that begins on page 7, line 17 with the following amended paragraph:

Fig. 6C depicts a defect flag signal produced by another embodiment of the present invention in response to the counter value of Fig. 6B;

Please replace the paragraph that begins on page 13, line 18 with the following amended paragraph:

Bytes 11-23 are not found to contain defects. Therefore, the count value i decays by ¼ for each of the bytes 11-23. A deflect defect flag indicating a high defect density continues to be generated until byte 18, where the count value i becomes equal to 2.

Please replace the paragraph that begins on page 17, line 17 with the following amended paragraph:

At byte 6, no defect is detected. Because at least 3 of last 4 bytes contained defects, at the rate of decay  $s_n$  is set equal to  $s_3$ , or 1 in the present example. Accordingly, the count value i is decremented by 1 so that it now equals 1.5. Because 1.5 is less than the threshold 2, the defect flag is discontinued. It will be noted that, with respect to the embodiment of the invention described with respect to Fig. 3 and Fig. 4, a defect flag was still generated with respect to bytes 6 and 7. However, because of the variable rate of decay provided by the embodiment illustrated in connection with Fig. 5B Fig. 5, and because the rates of decay that may be selected are all greater than the example of Fig. 4, no defect flag is generated in connection with bytes 6 and 7.

Please replace the paragraph that begins on page 18, line 3 with the following amended paragraph:

With respect to byte 7, again no defect is detected. Because two of the last 4 bytes contain defects,  $s_n$  is set equal to  $s_2$ , or 0.5 in the present example, and i is decremented to become equal to 1.0. At byte 8, no defect is detected. Because one of the last [[3]] 4 bytes contained a defect,  $s_n$  is set equal to  $s_1$ , or 0.33 in the present example, and i becomes equal to 0.67.

Please replace the paragraph that begins on page 21, line 9 with the following amended paragraph:

The down counter 808 receives the value  $s_n$  from the function block 832 of the decay circuit 812, and decrements i by  $s_n$  ( $i = i - s_n$ ). The new value for i is output to a comparator 836, which receives at a second output input a threshold value held by register 840. If the value i is greater than or equal to the threshold value, the comparator 836 generates a flag 844. The output of the down counter 808 is also provided to a decision block 848. The decision block 848 determines whether a byte under consideration contains a defect. If no defect is detected with respect to the byte, the count value i is decremented in the down counter 808 by the value  $s_n$ . If a defect is detected, the count value i is incremented by the value n at the summing block 804, and the new value for i is provided to the down counter 808.